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Eureka

OVERVIEW

Eureka is an independent software package used in conjunction with DPAS to enable users the capabilities to view pre-existing reports, perform ad hoc queries, analyze data, and create simple to sophisticated reports from within a Microsoft Office Desktop environment.

Documents may begin as a simple QuickQuery and evolve into sophisticated FreeForm presentations.

Eureka offers two ways to create documents:

- ⦿ **QuickQuery** - provides you a set of interactive tools that let you view data as you build your query in a spreadsheet-like environment. It provides the fastest way to build design documents whose content is limited to column values and custom calculations. You can add page headers and footers. You can group data and include totals for each group. QuickQuery also lets you define and store multiple query filters and apply them individually or in combination with each other.
- ⦿ **FreeForm** - allows you the ability to lay out your document without the constraints of QuickQuery. You can add page headers and footers, document headers and footers and group headers, and other types of document areas. Using the FreeForm function, you will develop a customized report, with the capability to make that report as simple or complex as necessary. FreeForm allows you the freedom to design all aspects of the report.

Both QuickQuery and FreeForm offer a step-by-step Wizard in designing reports.

Design documents can be quick and simple, composed of just a few unformatted database columns arranged in rows. They can be complex, highly formatted documents that include charts and crosstabs as well as other documents. When you create output documents, Eureka creates and submits database queries. A document may include one query or several.

Eureka Reporter Designer comes packaged for DPAS in these editions:

- ⦿ **Reporter Designer** - gives you both interactive QuickQuery tools and powerful FreeForm tools to create queries, reports, charts, and crosstabs.
- ⦿ **Reporter Viewer** - lets you submit queries for already defined documents and view, print, export, and save the results. The Reporter Viewer is designed for users that do not have Eureka installed.

OBJECTIVES

This course is designed for you to develop progressively greater competencies in the use of the *Eureka* Reporter Designer.

Upon completing this course, you should be proficient in the use of *Eureka* to retrieve from DPAS, the information necessary to accomplish your assigned duties.

Learning To Use Eureka

The process of creating a document using Eureka is as simple as defining the objects you want to appear on your document and placing them on the document. Eureka also includes many advanced query design features.

Terminology

Eureka has its own set of data base terminology, such as areas, area objects, hot objects, iqr, iqr, etc. These will be explained during the course of this training.

Mouse Terminology

This is the terminology used for mouse actions:

Term	Action
Click	Move the mouse pointer to an object. Then press and release the left mouse button (without moving the mouse). In <i>Eureka</i> , clicking an object selects it or deselects it. When an object is selected, menu items and keyboard actions affect that object (unless they are global actions).
Double-click	Move the mouse pointer to an object. Then press and release the left mouse button twice in rapid succession, without moving the mouse pointer. In <i>Eureka</i> , double-clicking opens a dialog box that lets you define or change the object you have double-clicked.
Drag	Move the mouse pointer to an object, press and hold the left mouse button. Then move the mouse and release the mouse button at a new location. The object moves to the new location. In <i>Eureka</i> , you can drag objects to move them, to add them to your document, and use them in many dialog boxes
Right-click	Move the mouse pointer to an object. Then press and release the right mouse button without moving the mouse. In <i>Eureka</i> , a right-click opens a shortcut menu. This is a menu of actions associated with the object on which you right-click.
CTRL+click	Hold down the CTRL key while you press and release the left mouse button. In <i>Eureka</i> , this selects an object for further manipulation without deselecting any already-selected objects.
SHIFT+click	Hold down the SHIFT while you press and release the left mouse button. Whenever you are selecting items from a list that allows more than one item to be selected, you can use SHIFT+click to select a range of items. Click the first item and then SHIFT+click the last item. <i>Eureka</i> selects the two items you click and all items in between them in the list.

On-Line Help

The help system in *Eureka* includes a list of frequently asked questions.

- ☉ To view the description and help information for a specific object in an object directory, move the mouse pointer to the object and then press and hold down the right mouse button.
- ☉ To get help in a dialog box, press the **F1 Function Key** or select the **Help** button.
- ☉ To get help in a *Eureka* window, press the **F1 Function Key** or select **Help** from the menu bar.
- ☉ To view the frequently asked questions list, open the help system and select **Frequently Asked Questions** from the contents page.

When you are using the help system, these shortcuts are available:

- ☉ There is a Chapter menu included as part of the help system menu bar. Use it to go directly to another chapter.
- ☉ Use **CTRL+PAGE UP** and **CTRL+PAGE DOWN** to go through a chapter page by page. You can use the browse buttons on the toolbar (< and >) to do this.
- ☉ Use the icons above each topic title to help you find topics and navigate the help system. See the help topic **Hints for Using Help** for information about using these icons.

Using the Context Help Button



To get help on anything that is displayed in the *Eureka* window, select the Context Help button from the toolbar. When you do so, your pointer changes to look like the Context Help button. You can then click any part of the *Eureka* window, including a menu selection, toolbar button, and so on, to get help on that item.

Object Help

To see a description of a business view, folder, or column shown in the object directory, place the mouse pointer on the object. *Eureka* displays a help message for the object.

Changing Your *Eureka* Password

INTRODUCTION

This process will show you the procedures used to change your password in *Eureka*. Anytime you change your login or password for DPAS, you must also change them to the same for *Eureka*. When you change your password in DPAS, you will get a pop-up message to change your password in *Eureka*.

OBJECTIVES

To allow the user to understand when and how to change the *Eureka* password.

APPLICATION

You have just changed your DPAS password and now you need to change it in *Eureka*.

PREREQUISITES

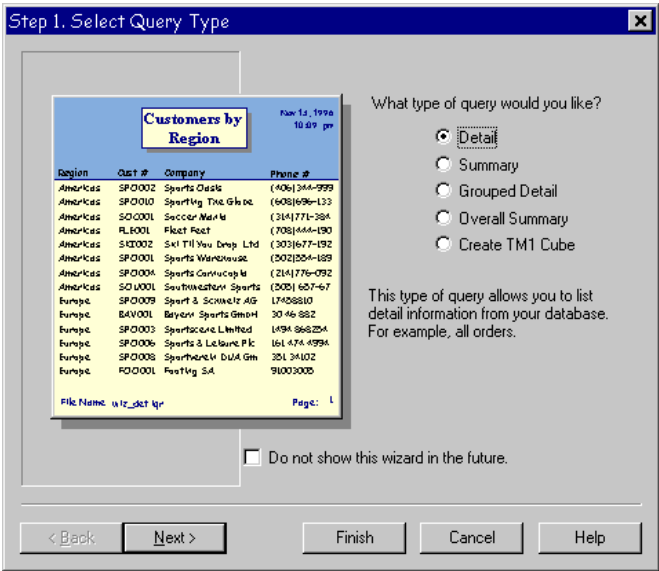
Eureka Reporter Designer is correctly loaded and configured.

ACTIVITY

Instructor-led demonstration

STEPS TO PERFORM ACTION

1. Select **Ad Hoc Reports** icon or select **Ad Hoc** from the menu bar.
2. Select **Eureka** from the program group.

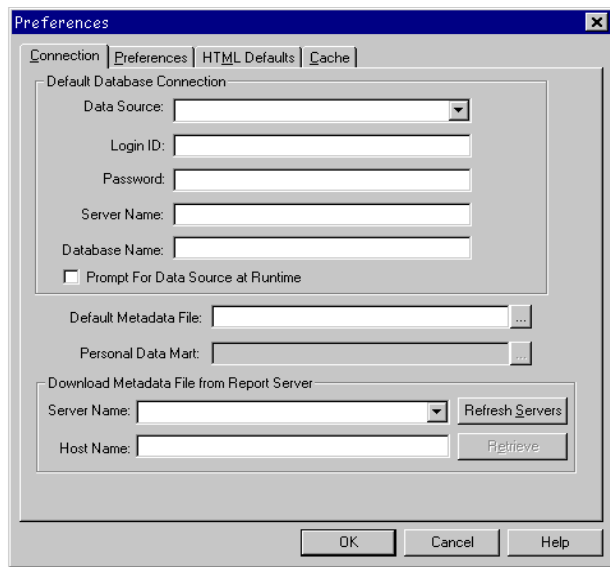
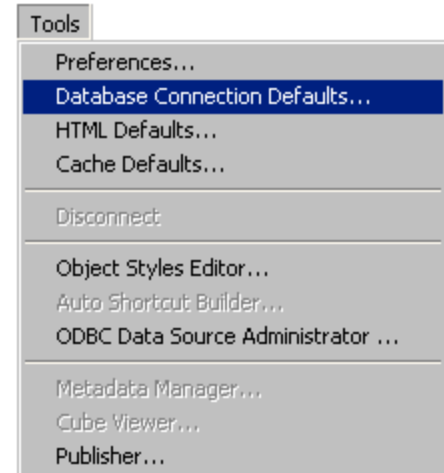


STEP 1:

- If you get the wizard, click **Finish**; otherwise, go to the next step.

STEP 2:

- From the menu bar, select **Tools**.
- Select **Database Connection Defaults...**



STEP 3:

- Data Source:** Make sure that your DPAS Site ID is displayed.
- Login ID:** Make sure that your DPAS User ID is displayed.
- Password:** Enter your **NEW** DPAS password.
- Server Name:** Leave this field blank.
- Database Name:** Leave this field blank.
- Prompt For Data Source at Runtime:** Do not check this box. If checked, you will be prompted to enter your DPAS Site ID each time you run a report.
- Default Metadata File:** Browse for where the DPAS programs reside on your workstation. If all the defaults were taken during installation, then the path is normally: **C:\Program Files\DOD\DPAS\DPAS.iqk**.

If you are unable to locate the DPAS.iqk file, click on the **START** button, select **Find** (or **Search** if using Windows ME or 2000), **Files or Folders...**, enter **dpas.iqk** look in the Local Hard Drives.

- Server Name:** Leave this field blank.
- Host Name:** Leave this field blank.
- Click **OK**.

Setting Preferences

INTRODUCTION

Eureka gives you control over your working environment in the following areas:

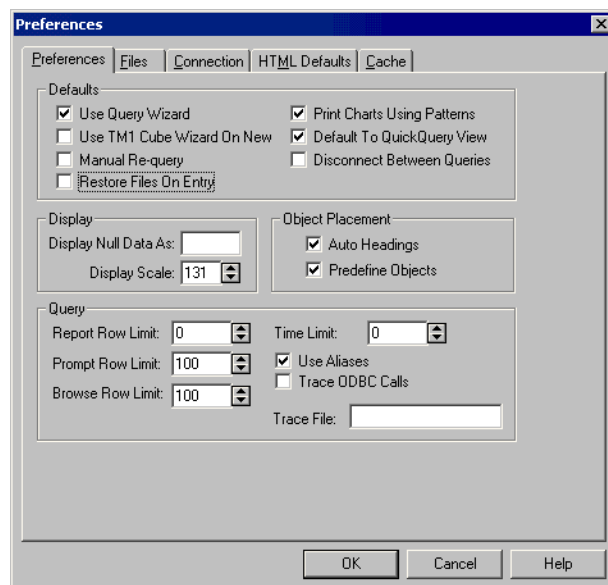
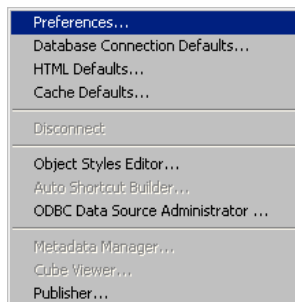
- Which tools are displayed for use in report design windows
- The appearance of windows and objects in them
- General preferences and database connection preferences

PREREQUISITES

None

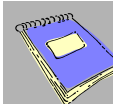
STEPS TO PERFORM ACTION

1. Open or create a FreeForm report.
2. Select **Tools** from the menu bar.
3. Select **Preferences...** from the program group.



STEP 1:

- a. **Defaults Group Box:** Make any necessary changes.



NOTE:

Preferences in the Eureka dialog box are global - they apply to all documents by default unless otherwise specified.

b. **Display Group Box:** If desired, make any changes to the display.

Defaults		Display	
Use Query Wizard	This controls whether the New Document toolbar button starts the Query Wizard or whether it opens an empty new window for you to add columns and objects directly. It also controls the default for Use Query Wizard in the New Document dialog box.	Display Null Data As	By default, Eureka displays null values as blanks or spaces. If you want null values to be output differently, such as NULL or N/A, enter the string you want Eureka to output.
Use TM1 Cube Wizard On New	This controls whether the New Document toolbar button starts the TM1 Cube Wizard or whether it opens an empty new window for you to add columns and objects directly. It also controls the default for Create TM1 Cube in the New Document dialog box. This option is not available in DPAS.	Display Scale	This controls the scaling of objects in FreeForm windows and output windows. Eureka always attempts to display objects at actual size. To compensate for some video drivers for your monitor, you might need to adjust the scale up or down. Values less than 131 reduce the size of objects displayed while values greater than 131 increase the scale. Values smaller than zero or extremely large will probably cause problems. The value of 131 is the default.
Manual Re-query	This should be used if you do not want Eureka to re-query your database automatically every time you add another column while working in QuickQuery window.		
Restore File On Entry	This controls what Eureka does when it starts up. When this option is active, Eureka opens all files that were open when you last ended a Eureka session. When it is not active, your session opens a new window depending on your setting for Default to QuickQuery View.		
Print Charts Using Patterns	This will print colors in a chart as patterns when printing to a non-color printer.		
Default To Quick-Query View	This controls whether the New Document dialog box defaults to QuickQuery or FreeForm as the window type to open for a new design document. It also controls whether the New Document toolbar button creates/opens a FreeForm window or a QuickQuery window.		
Disconnect Between Queries	This causes Eureka to disconnect from your database after each query. This may make each query after the first one in a session take a little longer to get started, but may be necessary if your database allows only a limited number of connections. This is not typically necessary with DPAS.		

- c. **Object Placement Group Box:** If desired, change the Object Placement preferences.
d. **Query Group Box:** If desired, change the Query preferences.

Object Placement		Query	
Auto Headings	This causes Eureka to automatically add column headings to your document as you add column objects in FreeForm windows. It adds a text object to your page heading area(s) each time you add an object (text, column, custom, and system). The heading text is the object label that can be changed in the object's attribute dialog box.	Report Row Limit	Acts as a global default for limiting the number of rows Eureka gets from DPAS. Use zero to indicate that no row limit is to be set for your document (zero is the default).
Predefined Objects	This causes Eureka to open the object attributes dialog box for each new object as you place it on your document. This makes the process of defining the object and places the object as a single action. This option applies to text, child data, column, custom, user prompt, and system objects.	Time Limit	Acts as a global default for the time limit for query processing. Use zero to indicate that no time limit is to be set. However, DPAS has a time limit on inactivity of 45 minutes.
		Prompt Row Limit	This controls how many rows (values) are retrieved from the database when a dynamic choice list is generated for a user prompt.
		Use Aliases	This controls whether an alias reference should be used for all tables queried. DPAS uses aliases, so this option should remain turned on.
		Trace ODBC Calls	You can use ODBC call tracing to provide a log of ODBC calls and the result of each. This may allow you to determine the cause for any database access problems you may have.
		Browse Row Limit	This controls how many rows (values) are retrieved from the database when you select the Browse button in an object directory or object source.
		Trace File	This is the name of the file to which to log database calls. This should be left blank.

- e. Click **OK**.